Wexiödisk

POTWASHER WITH GRANULATE
WD-90GR FLEX & WD-90GR HC

(translation of the original documentation)

Installation and user manual

S/N: Valid from: 15. 05. 2011 Rev.: 2.0

1. General information 1

1.1 Symbols used in this manual 1
1.2 Symbols on the dishwasher 2
1.2.1 Machine marking 2
1.3 Checking that the machine and the manual correspond 2

2. Safety instructions 3

2.1 General information 3
2.2 Transport 3
2.3 Installation 4
2.4 Detergent and drying agent 4
2.5 Operation 4
2.5.1 Hot water 4
2.5.2 Crushing risk 4
2.5.3 Risk of slipping 4
2.6 Cleaning 5
2.6.1 Pressure washing 5
2.6.2 The outside of the machine 5
2.6.3 Cleaning the floor 5
2.7 Repairing and servicing the dishwasher 6
2.7.1 Safety instructions if the machine is not functioning 6
2.8 Recycling the machine 6

3. Installation 7

3.1 General information 7
3.2 Requirements for the installation site 7
3.2.1 Lighting 7
3.2.2 Ventilation 7
3.2.3 Drains 7
3.2.4 Space for servicing 8
3.3 Transport and storage 8
3.4 Preparing for the installation 8
3.5 Unpacking 9
3.6 Recycling the packaging 9
3.7 Installation 9
3.7.1 Positioning the machine 9

3.8 Connections 10
3.8.1 Electrical connection 11
3.8.2 Water connection 11
3.8.3 Drain connection 11
3.8.4 Ventilation 11
3.9 Installing detergent and drying agent equipment 12
3.9.1 Electrical connection of the equipment 13
3.9.2 Detergent dosing system 13
3.9.3 Drying agent dosing system 13
3.10 Trial operation 14
3.10.1 Start-up schedule 14
3.11 Technical documentation 16

4. Instructions for use 17

4.1 Preparations 18
4.1.1 The machine's design 18
4.1.2 Preparations before filling 19
4.1.3 Filling the machine 19
4.1.4 Positioning the items in the cassette 19
4.1.5 Using accessories 20
4.1.6 Restaurant kit (WD-90GR Flex) 21
4.1.7 Gastronorm kit (WD-90GR HC) 25
4.1.8 Other extra equipment for the WD-90GR Flex / WD-90GR HC 30
4.2 Using the machine 35
4.2.1 Washing 35
4.2.2 Starting the wash programme – washing 37
4.2.3 Guaranteed final rinse 37
4.2.4 Checking the washed items 38
4.2.5 Stopping the machine during operation 38
4.2.6 Changing the water 39
4.3 After use – cleaning 42
4.3.1 Daily cleaning 42
4.3.2 Periodic cleaning 46
4.3.3 Periodic servicing 48
4.3.4 Operating problems 49

5. Technical information 52

1. General information

Read the instructions in this manual carefully as they contain important information regarding the correct, effective and safe installation, use and servicing of the dishwasher.

Keep this manual in a safe place so that it can be used by other operators of the dishwasher.

The electronics in the machine are RoHS compatible.

1.1 Symbols used in this manual

This symbol warns of situations where a safety risk may arise. The instructions given should be followed in order to prevent injury.

This symbol on a component is a warning of electrical equipment. The machine is sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics.

This symbol explains the correct way to perform a task in order to prevent poor results, damage to the dishwasher or hazardous situations.

This symbol identifies recommendations and hints to help you to get the best performance from the machine.

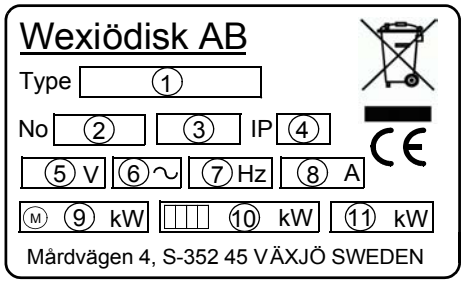
This symbol explains the importance of careful and regular cleaning of the machine to meet hygiene requirements.

1.2 Symbols on the dishwasher

This symbol on a component is a warning of electrical equipment. The component may only be removed by a qualified electrician. The machine is sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics.

1.2.1 Machine marking

The machine has two rating plates, one of which is placed at the bottom of one side of the machine and the other in the electrical cabinet. The technical information on the plates is also included on the machine's wiring diagram. The various rating fields show:



1. Machine type
2. Machine serial number
3. Year of manufacture
4. Enclosure protection class
5. Voltage
6. Number of phases with or without zero
7. Frequency
8. Main fuse
9. Motor output
10. Electrical heat output
11. Max. output

1.3 Checking that the machine and the manual correspond

Check that the type description on the rating plate corresponds with the type description on the front of the manual. If manuals are missing, it is possible to order new ones from the manufacturer or the local distributor. When ordering new manuals, it is important to quote the machine number found on the rating plates.

2. Safety instructions

2.1 General information

The machine is CE marked, which means that it complies with the requirements of the EU machinery directive with regard to product safety. Product safety means that the design of the machine will prevent personal injury or damage to property.

Modifying the equipment without the approval of the manufacturer invalidates the manufacturer's product liability.

To further improve safety during installation, operation and servicing, the operator and the personnel responsible for installing and servicing the machine should read the safety instructions carefully.

Switch off the machine immediately in the event of a fault or malfunction. The machine must only be serviced by trained engineers. The regular checks described in the manual must be carried out in accordance with the instructions. The machine must be serviced by a person authorised to do so by the manufacturer. Use original spare parts. Contact an authorised service company to draw up a programme of preventative maintenance. Dangerous situations may arise if the instructions above are not followed.

Before using the machine, ensure that personnel are given the necessary training in operating and maintaining the machine.

2.2 Transport

Handle the machine with care during unloading and transport to avoid the risk of it tipping over. Never lift or move the machine without using the wooden packaging to support the stand.

2.3 Installation

This symbol on a component is a warning of electrical equipment. The machine is sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics.

Water and steam pipes must only be connected by authorised personnel.

Water pipes must be connected in a way that complies with the current regulations of the local water supply authority. Check that the water and steam connections are tight before operating the machine.

Make sure that the mains voltage is the same as that indicated on the machine's rating plate. The machine should be connected to a lockable mains switch.

2.4 Detergent and drying agent

Only detergent and drying agent intended for industrial dishwashing machines must be used. Ordinary washing-up liquid must not be used in the machine or for soaking. Contact your detergent supplier regarding the choice of a suitable detergent.

Be aware of the risk of handling washing and drying agents. Protective gloves and safety glasses should be used when handling dishwasher detergent. Read the warning text on the detergent and drying agent containers as well as the detergent supplier's regulations.

2.5 Operation

2.5.1 Hot water

The temperature of the wash and rinse water is 58°C and 85°C. Do not open the door until the wash and rinse phases have finished.

2.5.2 Crushing risk

Take care when opening and closing the door as there is a risk of body parts being crushed between the door and the tank, and at the top of the machine between the door and the cover plate.

2.5.3 Risk of slipping

In order to prevent the risk of people slipping if granulate has been spilled on the floor, this must be regularly swept up. Keep the floor dry and mop up any water which has been spilled.

2.6 Cleaning

The temperature of the water in the tank is approx. 58°C and contains detergent. Be careful when draining and cleaning the tank. Use protective gloves.

2.6.1 Pressure washing

The machine must not be cleaned with a pressure washer. If pressurised water is directed at the electrical cabinet, the water may penetrate the cabinet and damage the electrical equipment, which may affect the safety of the machine.

In order to satisfy current requirements, electrical components of approved enclosure classes are used. There is no enclosure class capable of withstanding high pressure.

2.6.2 The outside of the machine

Pressure washers and hoses must not be used to wash the outside of the machine. Water can penetrate into the electrical cabinet and the control panel and damage the equipment, which may affect the safety of the machine.

2.6.3 Cleaning the floor

When the floor is being cleaned using a pressure washer, water can splash up under the machine and damage the components. These have not been designed to withstand being washed with water. Never use a pressure washer to clean the floor within 1 metre of the dishwasher without the special protective covers that are available to prevent splashing. Problems with splashing can also occur when using ordinary hoses.

2.7 Repairing and servicing the dishwasher

Disconnect the power supply before opening the electrical cabinet. Avoid touching hot pipes and the booster heater.

2.7.1 Safety instructions if the machine is not functioning

Check the following:

- Has the machine been used according to the instructions?
- Are all the removable parts in the correct place?
- Is the mains switch in the ON position?
- Are the fuses in the electrical cabinet undamaged? Ask the service personnel to check the fuses.

If this does not solve the problem, ask authorised service personnel to check the machine.

2.8 Recycling the machine

When the dishwasher has reached the end of its service life, it must be recycled in accordance with current regulations. Contact professionals who specialise in recycling.

3. Installation

3.1 General information

The machine must be installed by authorised personnel only.

Read these instructions carefully as they contain important information regarding the correct installation method.

The instructions should be used together with the machine's wiring diagram and flow diagrams for water and steam.

The machine is CE marked. The CE mark is only valid for machines that have not been modified. If the machine is damaged as a result of the instructions not being followed, this invalidates the supplier's warranty and product liability.

3.2 Requirements for the installation site

3.2.1 Lighting

In order to ensure the best possible working conditions during installation, operation, servicing and maintenance, make sure that the machine is installed in a well-lit room.

3.2.2 Ventilation

The machine produces heat and steam when in operation. In order to ensure the best possible working conditions, a certain air change rate is required in the dish-washing room. The ventilation requirements for the room are calculated as per applicable standards.

3.2.3 Drains

There must be a floor drain for the machine's waste water and for water used for cleaning. The drain should be located under the machine's loading bench. The floor drain capacity can be found in the TECHNICAL SPECIFICATIONS.

3.2.4 Space for servicing

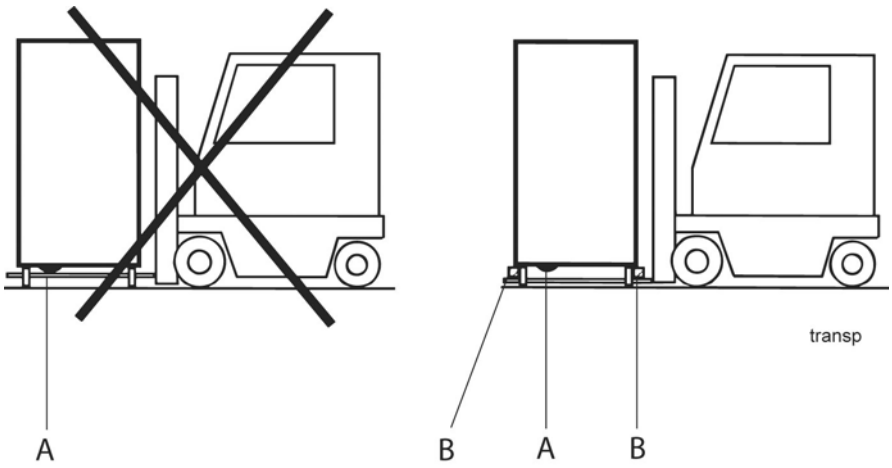
A 1-metre area should be left clear in front of the machine for servicing purposes. The area above the machine must not contain any equipment which could prevent the fitting, servicing and replacement of parts.

3.3 Transport and storage

Always transport the machine in an upright position.

Take care during transport, as there is a risk of the machine tipping over.

NOTE: The machine must not be transported without a pallet or other support. Some form of support beam must always be used along the sides of the machine during transport, otherwise the machine may be damaged. When transporting the machine without a normal wooden pallet, always check that none of the components underneath the machine can be damaged.



A=Pumps
B=Spacers

If the machine is not being installed immediately, it must be stored in a frost-free area where the air is dry.

3.4 Preparing for the installation

The machine can be supplied with a height for transport purposes of 1950 mm.

Check that there is sufficient height available to transport the machine to its installation site.

3.5 Unpacking

Check against the delivery note that all the units have been delivered.

Remove the packing material. Inspect the machine for any transport damage.

3.6 Recycling the packaging

Packaging must be disposed of or recycled in accordance with local regulations.

3.7 Installation

Check that the overheating protection on the booster heater and the tank element are set to zero.

3.7.1 Positioning the machine

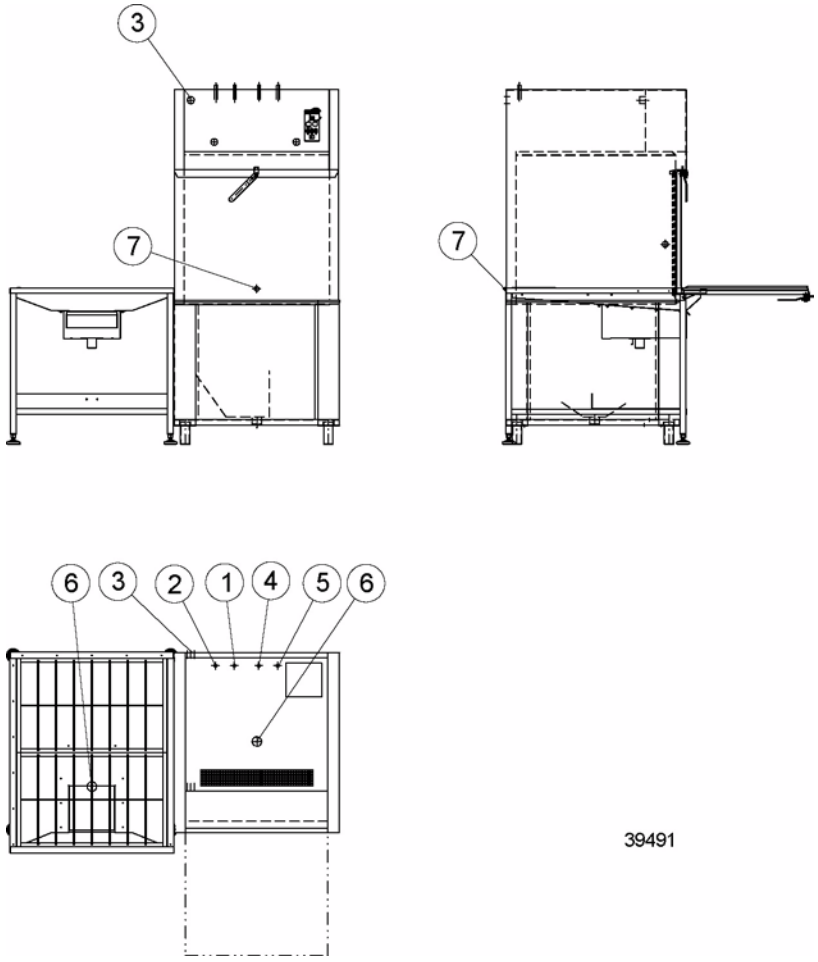
Remove the protective plastic on the sides which will be put against the wall.

Loosen the detergent hose on the back of the machine before putting the machine against the wall. Hang the hose up in such a way that it is easily accessible for the detergent supplier.

Put the machine in position and check that it is horizontal using a spirit level.

Adjust the height using the machine's legs.

3.8 Connections



1. Cold water connection
2. Hot water connection
3. Electrical connection
4. Steam connection (option)
5. Condensation connection (option)
6. Drain connection
7. Detergent connection

3.8.1 Electrical connection

This symbol on a component is a warning of electrical equipment. The part may only be removed by a qualified electrician or trained personnel.

Information about electrical connections can be found on the machine's wiring diagrams. The wiring diagrams are inside the electrical cabinet door. Store the diagrams in the electrical cabinet after installation.

The machine must be connected to a lockable mains switch. This should be positioned on the wall where it is protected from the water and steam which may be released when the door is opened.

There is a bushing for the electric cable in position (3). The cable is connected in the electrical cabinet.

3.8.2 Water connection

Connect the cold and hot water pipes according to the labels by the connection points (1,2). If the machine is connected to a hose, the internal diameter of the hose must be at least 12 mm.

The hot water connection is fitted with a filter. The cold water connection is fitted with a filter, non-return valve and vacuum valve. The connections have an internal thread.

A stopcock must be installed on the water supply pipes.

It is important that the water supply has sufficient pressure to ensure the correct flow of water to the machine. The required pressure can be found in the TECHNICAL SPECIFICATIONS. If the water pressure is too low, a booster pump must be fitted.

3.8.3 Drain connection

The waste water system connected to (6) must have 50 mm metal pipes that will withstand collision or 50 mm plastic pipes. The waste water pipe must be connected to a floor drain and the opening of the pipe must be above the water level. The capacity of the floor drain must be 3 litres/second.

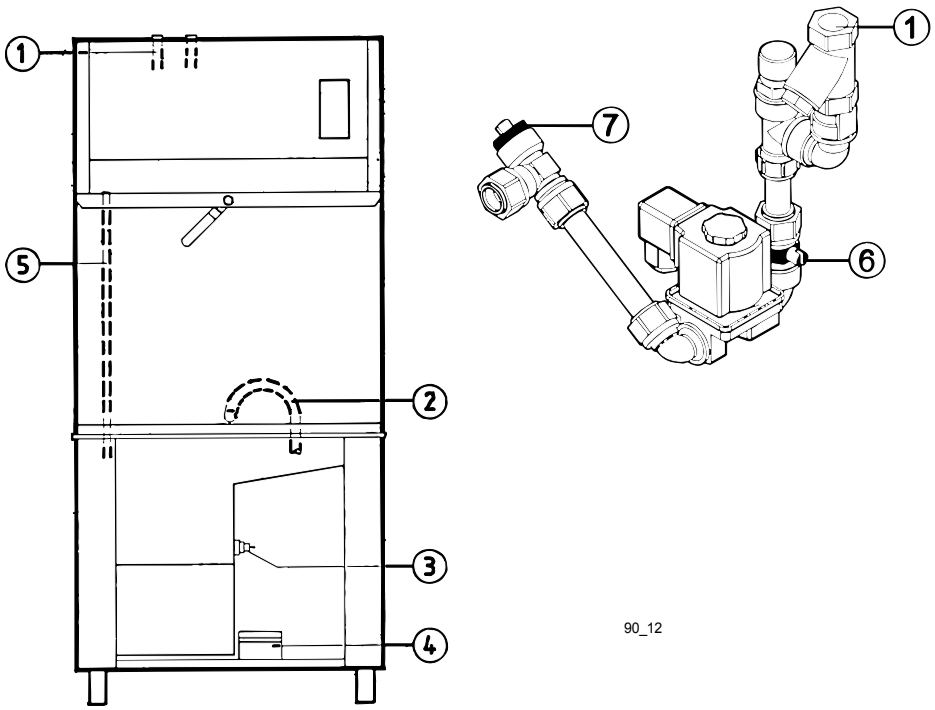
3.8.4 Ventilation

The machine produces heat and steam when in operation. In order to ensure the best possible working conditions, a certain air change rate is required in the dishwashing room. The ventilation requirements for the machine can be found in the TECHNICAL SPECIFICATIONS. In addition, the ventilation requirements for the room should be calculated on the basis of current standards.

3.9 Installing detergent and drying agent equipment

The machine comes ready for fitting detergent and drying agent equipment, but this is not included with the machine.

To avoid making unnecessary holes in the machine, the equipment should be placed on the wall behind the machine on the outfeed side.



Connecting detergent and drying agent

1. Incoming hot water
2. Detergent hose
3. Hole for measuring cell
4. Junction box
5. Bushing for drying agent hose
6. Water outlet for detergent dosing
7. Connection for drying agent dosing

3.9.1 Electrical connection of the equipment

- Remove the machine's front panel. The panel is fixed with screws on the bottom edge under the stand.
- The connections for the dosing equipment are in the junction box (4) which is located on the stand inside the front panel. The connections are labelled 101 – 106. (See the wiring diagram for connection information.)
- The measuring cell (3) can be connected to connectors 107 and 108 in the junction box.

3.9.2 Detergent dosing system

- Remove the machine's top panel.
- The water outlet (6) for the detergent dosing system is on the incoming hot water pipe (1) in front of the solenoid. The pipe from the outlet can be taken around the back inside the rear panels where there is a bushing.
- The hose (2) on the back of the machine is connected to a detergent container. The hose supplied with the machine is connected to the wash tank.

3.9.3 Drying agent dosing system

The connection for the drying agent (7) is on the incoming hot water pipe after the solenoid. The hose for the drying agent must be taken through the plastic pipe (5) inside the rear panels.

3.10 Trial operation

Prepare the machine for trial operation by following the INSTRUCTIONS FOR USE. The instructions describe the measures that must be taken to prepare the machine for operation.

3.10.1 Start-up schedule

This should be completed and signed by the customer on start-up.

Machine type:

Machine serial number:

Installation date:

Customer:
Postal address:
Telephone:
Contact:

Dealer:
Telephone:
Contact:

Installation company:
Telephone:
Contact:

Service company:
Telephone:

Detergent supplier:
Telephone:

Customer's signature:

End user’s signature:

Name in block capitals:

Read the installation and user manuals carefully. Then check the following points:

1. Check:

- Water and drain connections.
- That the machine is evenly balanced.
- That the cassette can easily be moved in and out of the machine.
- Detergent and drying agent.
- That the pump filters, level pipe and tank filter are in position.
- That the FU21 and FU41 mini-switches are in the off position.
- The pump’s direction of rotation. Note: If the pump is rotating in the wrong direction, the phase must be inverted on the terminal block for the incoming electrical cable.
- That there is the right quantity of granulate in the machine.
- That the overheating protection on the booster heater and the tank element are set to zero.

2. Filling the machine:

- Turn on the power switch.
- Close the door.
- Fill the machine with water in accordance with the instructions for use.
- The booster heater fills automatically. FU21 and FU41 switch on when the tank is full.

3. Check the setting of the reference values:

- Check the functioning of the booster pump, where applicable.
- All the reference values have been set to the recommended values on delivery.

4. Run a number of washes complete with loads and check that:

- There are no water leaks.
- The door switch works.
- The water temperatures are maintained.
- The washed items are clean.
- There is no granulate sticking to the washed items.
- The washed items are dried.
- There is an adequate water flow to the machine. Recommended setting: 5 l/wash cycle Flow: 15l/min. This can be checked in the machine's reference values and diagnostics function.

5. Final check: Empty the machine and turn off the power using the power switch.

- Re-tighten all connections on the circuit breakers and relays.
- Set all the circuit breakers to the on position.
- Inform the customer if the water flow and the water pressure are too low.
- Display the maintenance instructions supplied with the machine.

6. Train dishwashing staff

3.11 Technical documentation

To ensure that the machine is used correctly, it is essential that the documentation supplied with the machine is made available to the staff who will be using the machine. The installation and user manuals should be kept near the machine.

If the service manual is supplied with the machine, it should be given to the service engineer who is responsible for the machine.

If the spare parts manual is supplied with the machine, it should be given to the service engineer who is responsible for the machine.

If the WEB Tool manual is supplied with the machine, it must be kept near the machine.

4. Instructions for use

All personnel using the machine must be given training in how the machine works by the person responsible for staff safety.

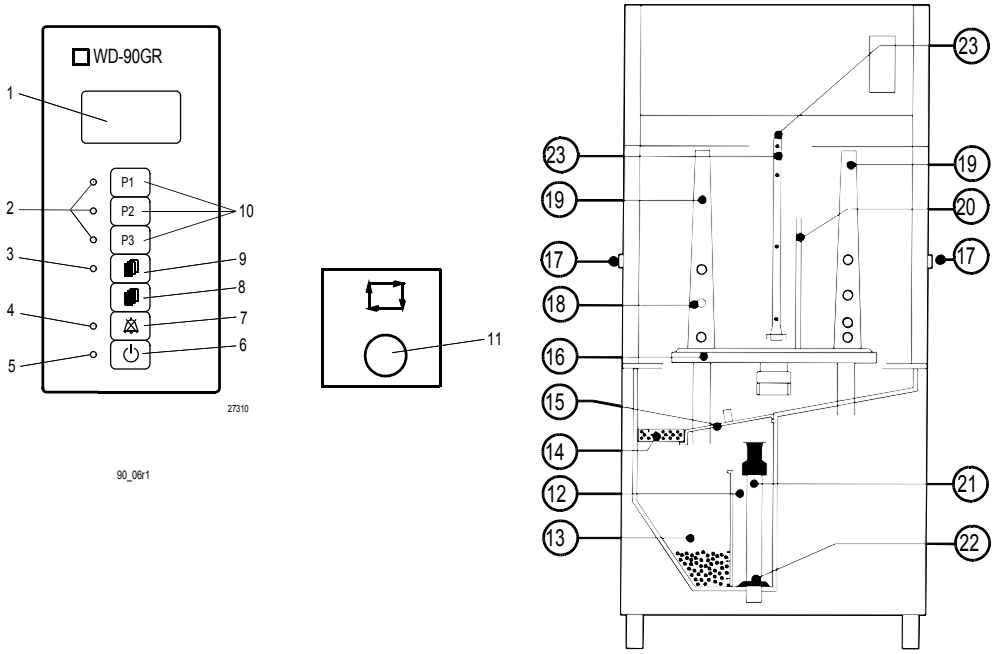
The dishwasher should not be used by anyone suffering from a physical or mental illness.

Children should be watched closely to ensure that they do not play with the machine.

Text messages appear on the machine's display which indicate what the machine is doing. The machine's reference values, which can be changed, and alarms of different types also appear on the display.

4.1 Preparations

4.1.1 The machine's design



1. Display
2. LEDs which indicate the choice of programme
3. LED which indicates that the diagnostics function is activated
4. LED for the alarm function (flashes in the case of an alarm that can be reset)
5. LED which lights when the power is switched on.
6. On/Off
7. Button for resetting alarm
8. Button for switching between diagnostic messages
9. Button for diagnostic messages
10. Buttons for selecting the programme
11. Control button for starting the wash programme
12. Wash tank
13. Wash tank with granulate
14. Filter
15. Cover plates
16. Circular table
17. Pushbuttons for the door lock. (Pressing the buttons allows the door to be lowered in parallel with the front panel.)
18. Wash nozzle
19. Washer arms
20. Drive arm
21. Level pipe
22. Rubber seal
23. Rinse pipe for final rinse

4.1.2 Preparations before filling

Check:

- that the machine has been cleaned and that the stopcocks on the water supply are open.
- that there is granulate in the granulate wash tank (13). The tank should contain 5 litres of granulate.
- that the wash tank (12) is completely free from granulate. Granulate in the wash tank can cause a water leak round the rubber seal (22) on the level pipe (21).
- the amount of detergent and drying agent.

NOTE: Ordinary washing-up liquid must not be used in the machine or for soaking. It causes foam to form and produces poor washing results.

Fit:

- the level pipe (21). The rubber seal of the level pipe (22) must be sealed against the bottom plate.
- the cover plates (15)
- the filters (14).

4.1.3 Filling the machine

NOTE: There must not be a cassette in the machine while it is filling.

- Press button (6) to switch on the power supply.
- Press one of the programme buttons P1, P2 or P3 (10).
- Close the door. The machine will start to fill with water.
- Messages indicating the sequence of events appear on the display (1).

NOTE: The time needed to heat the water to the right wash temperature depends on the temperature of the incoming water.

4.1.4 Positioning the items in the cassette

NOTE: The items must not be soaked or pre-washed with ordinary washing-up liquid.

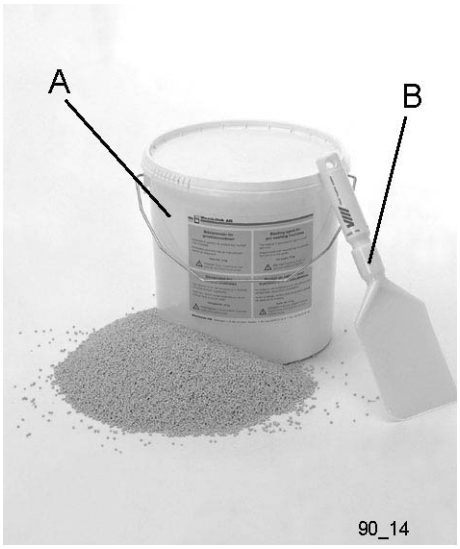
All the items must be correctly and firmly positioned. The dirty side of the items must face outwards. Check that nothing is sticking out and preventing the cassette from rotating in the machine.

4.1.5 Using accessories

A number of accessories is available for washing different types of items. It is important to use the correct accessories in order to obtain the best washing results. Items which are incorrectly positioned can come loose and damage the machine.

Granulate and scraper spatula

The granulate is used for washing programmes with granulate: P1, P2 and P3. The scraper spatula is used to scrape off loose dirt.



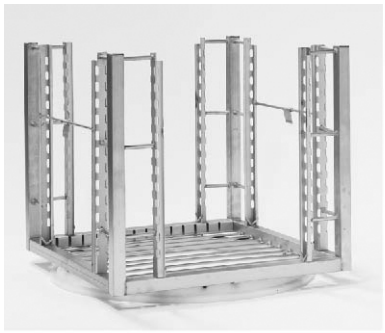
A=Granulate 209,7260
B=Scraper spatula 209,7261

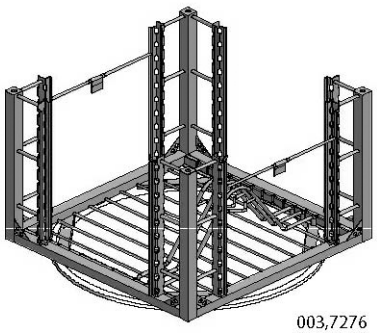
4.1.6 Restaurant kit (WD-90GR Flex)

Kit for customers with a mix of items typical of a restaurant. For customers with a large number of gastronorm containers in smaller sizes: 1/2, 1/3, 1/4 or 2/8. There is the option of washing lightly soiled loads in plastic washing baskets.

Square cassette

Cassette with supporting sides for all types of washing. The items are positioned in the cassette so that they do not move during the wash cycle. 1 cassette is supplied with the machine.

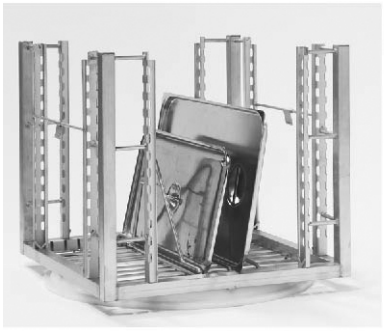


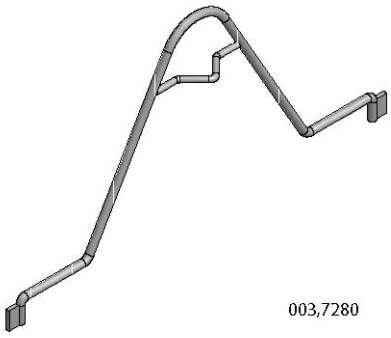


Square cassette 209,7276

Supporting side

The supporting side (3 are supplied with the machine) is positioned on the base of the cassette and used for washing lids, chopping boards, baking trays and other items. The items are placed between the supporting sides. The sides are removable and the distance between them can be adjusted to fit the items being washed. To remove the sides, push them together from the side and lift them up.

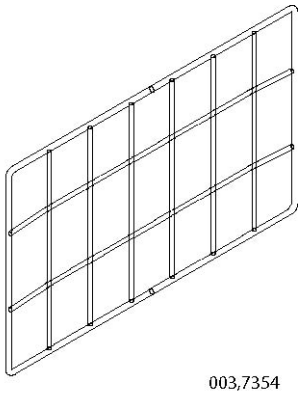




Supporting side 209,7280

Pot grille

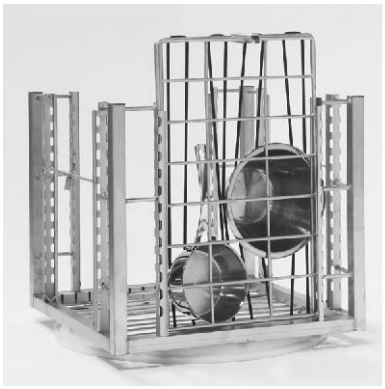
The pot grille is used to prevent items moving sideways. The grille is positioned in the fixed runners on the cassette. 3 pot grilles are supplied with the machine.

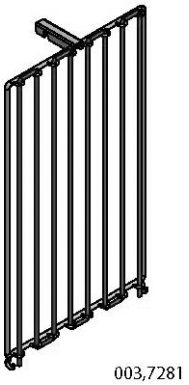


Pot grille 209,7354

Flexible insert

Bowls, small saucepans, baking tins and other items which are hard to position in other holders can be washed in the flexible insert. The items are clamped in position between the two sides of the insert which are held apart with a lock mechanism. 1 flexible insert is supplied with the machine.

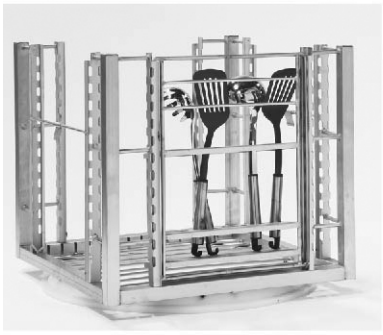


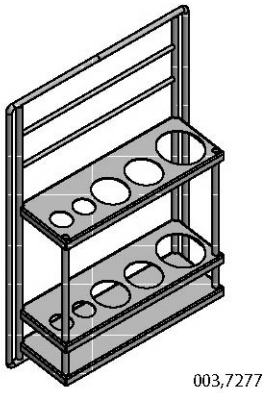


Flexible insert 209,7281

Ladle holder (extra equipment)

The ladle holder is used for washing utensils such as ladles, whisks etc.

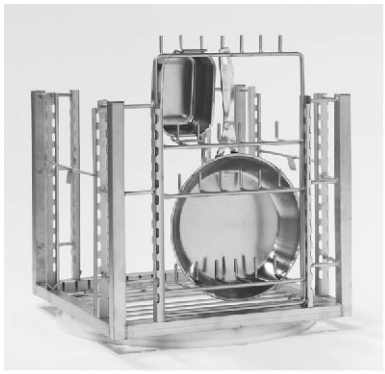


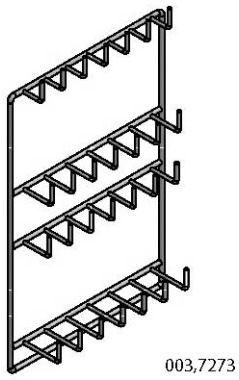


Ladle holder 209,7277

All-round holder (extra equipment)

The all-round holder is used for washing ABC containers, pots and pans. Pots and pans can be hung from the top part of the holder.

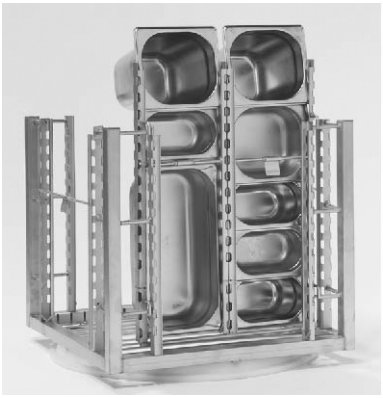


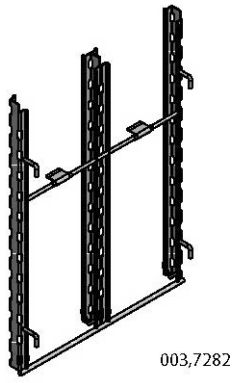


All-round holder 209,7273

Holder for 1/3, 1/6 and 1/9 containers (extra equipment)

The holder is suitable for use when washing 1/3, 1/6 and 1/9 containers.

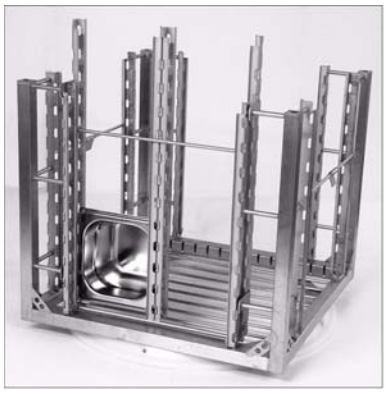


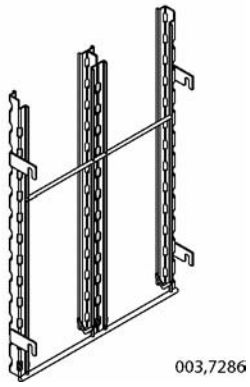


Holder for 1/3, 1/6 and 1/9 containers 209,7282

Holder for 1/4 and 1/6 containers (extra equipment)

The holder is suitable for use when washing 1/4 and 1/6 containers.





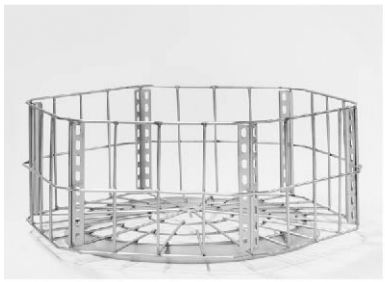
Holder for 1/4 and 1/6 containers 209,7286

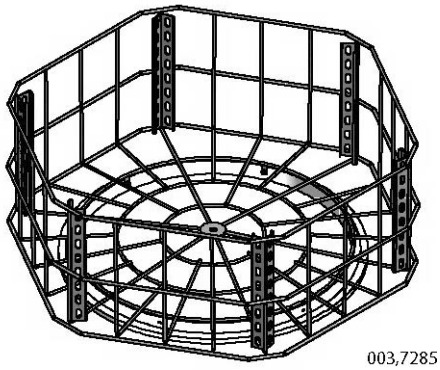
4.1.7 Gastronorm kit (WD-90GR HC)

Kit for customers using large numbers of items in gastronorm sizes or only these types of item. Individual pots and mixing bowls. Accessory for the hexagonal cassette intended for washing a small quantity of other items.

Hexagonal cassette

Cassette with supporting sides for all types of washing. The items are positioned in the cassette so that they do not move during the wash cycle. 1 hexagonal cassette is supplied with the machine.

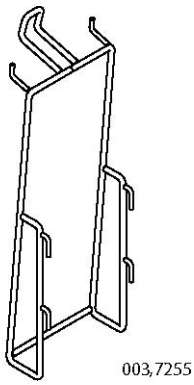




Hexagonal cassette with space for 6 1/1 gastronorm containers 209,7285

Pot holder

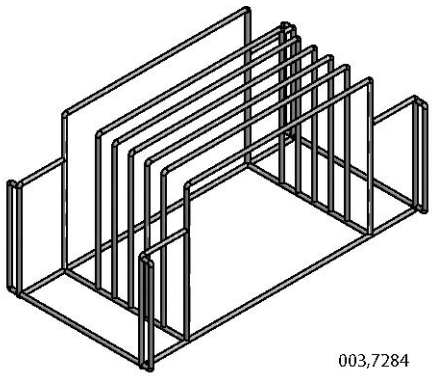
Holder used for washing larger pots. The pots are hung from the handle. The hooks on the holder fix firmly onto the cassette. 1 pot holder is supplied with the machine.



Pot holder 209,7255

Grid holder for 2/1 containers

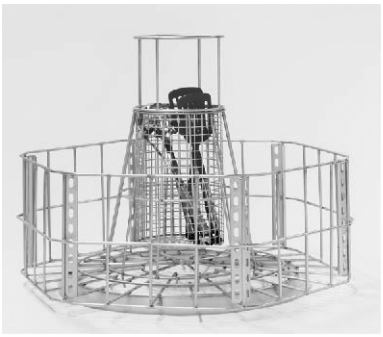
The containers are inserted between the holders. 1 grid holder is supplied with the machine.

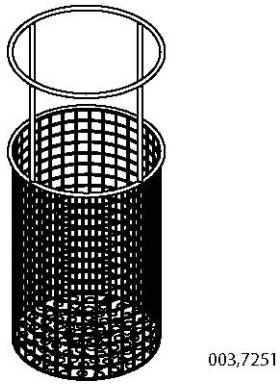


Grid holder for 2/1 containers 209,7284

Ladle holder (extra equipment)

This holder is positioned in the middle of the pan holder. It can be used for washing ladles, whisks, knives etc.

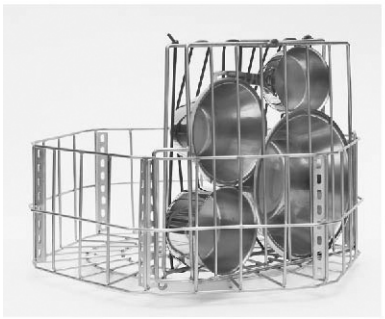


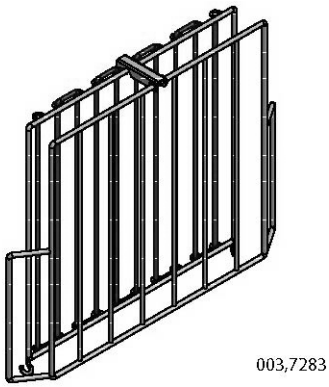


Ladle holder 209,7251

Flexible insert (extra equipment)

Bowls, small saucepans, baking tins and other items which are hard to position in other holders can be washed in the flexible insert. The items are clamped between the sides of the insert.

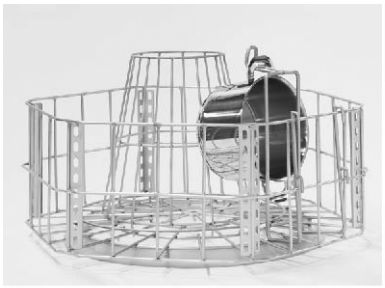


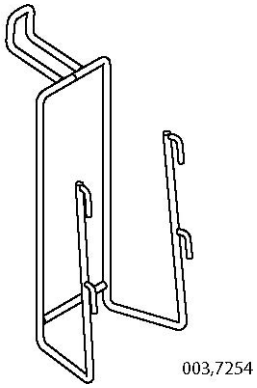


Flexible insert 209,7283

Pot holder for small pots (extra equipment)

The holder is used for small pots. It can also be used for containers without rims which cannot be positioned between the cassette's fixing pins.

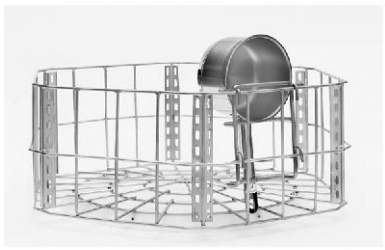


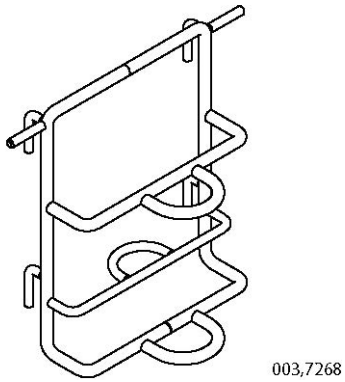


Pot holder for small pots 209,7254

Saucepan holder (extra equipment)

Holder used for washing saucepans with long handle, for example.

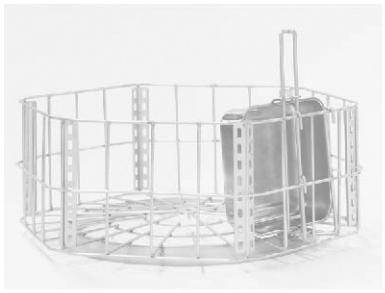


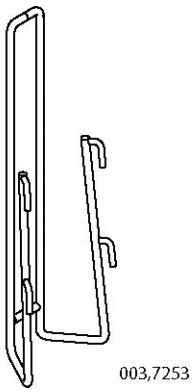


Saucepan holder 209,7268

ABC holder (extra equipment)

Slide the handle of the container over the holder. If the lid has a projecting handle, slide it over the holder.

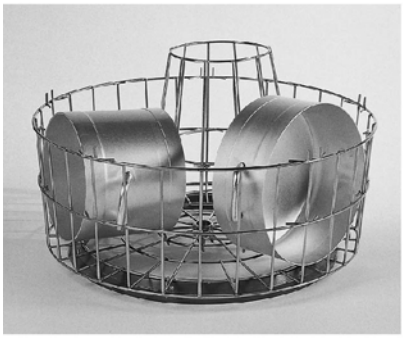


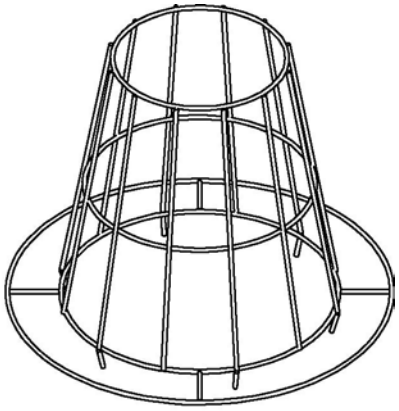


ABC holder 209,7253

Saucepan support (extra equipment)

The saucepan support is used for washing smaller pots. The items are positioned in the cassette so that they do not move during the wash cycle.



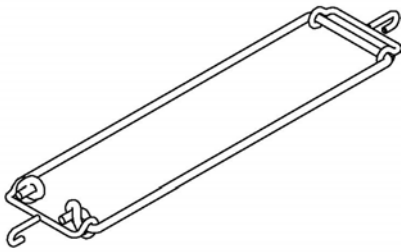


003,7252

Saucepan support 209,7252

Rubber tensioner (extra equipment)

Items which are difficult to position can be fastened in place with the rubber tensioner.



003,7272

Rubber tensioner 209,7272

4.1.8 Other extra equipment for the WD-90GR Flex / WD-90GR HC

Sorting bench

The sorting bench is used for removing food residues and stacking dirty items.

Sorting bench 209,7270

Rinsing unit

The rinsing unit can be used both for rinsing items before washing and for cleaning the machine and the dishwashing room.

Rinsing unit 209,7390

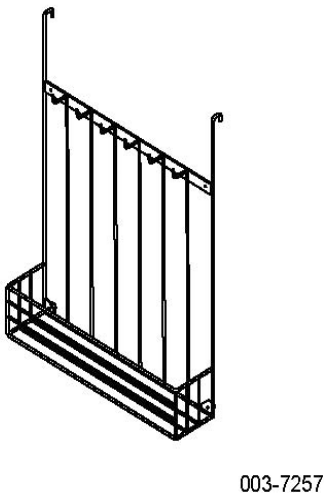
Trolley

The trolley is used for moving clean and/or dirty items.

Trolley 209,7262

Utensil holder

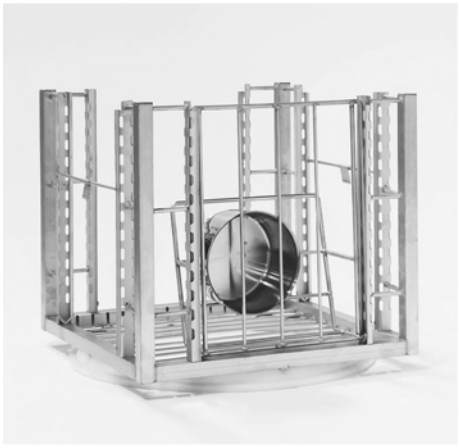
Holder for a variety of utensils which can be fitted on both sides of the machine.

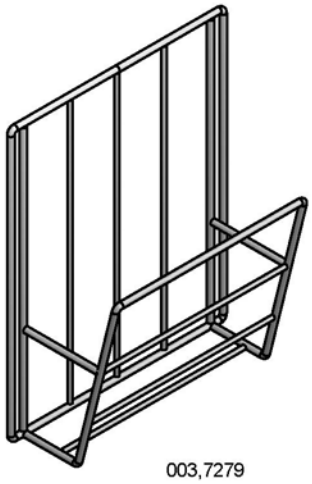


Utensil holder 209,7257

Holder for small pans and bowls

This holder is used for bowls and pans.

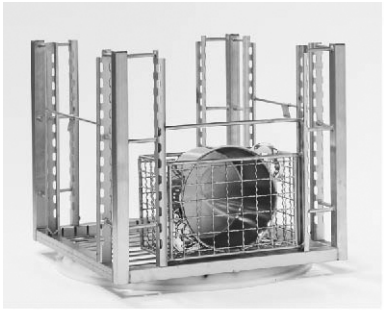


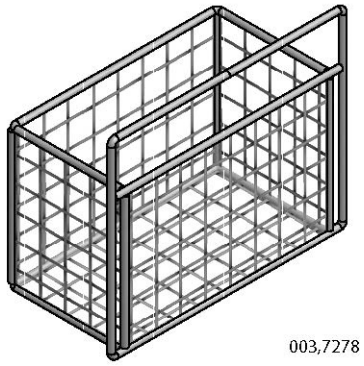


Holder for small pans and bowls 209,7279

Mesh basket

Small utensils can be placed in the mesh basket. They should be put loose in the basket for the best washing results.

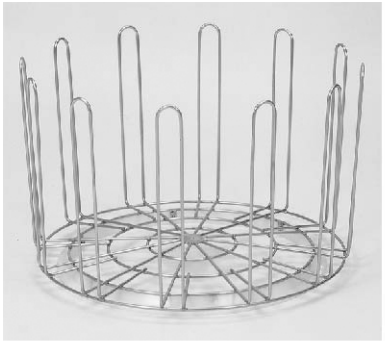


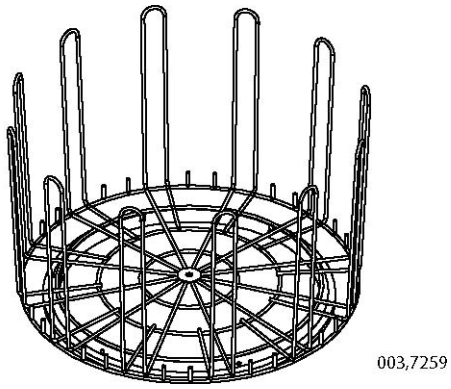


Mesh basket 209,7278

Wash basket for ABC containers

Wash basket specially designed for washing ABC containers.

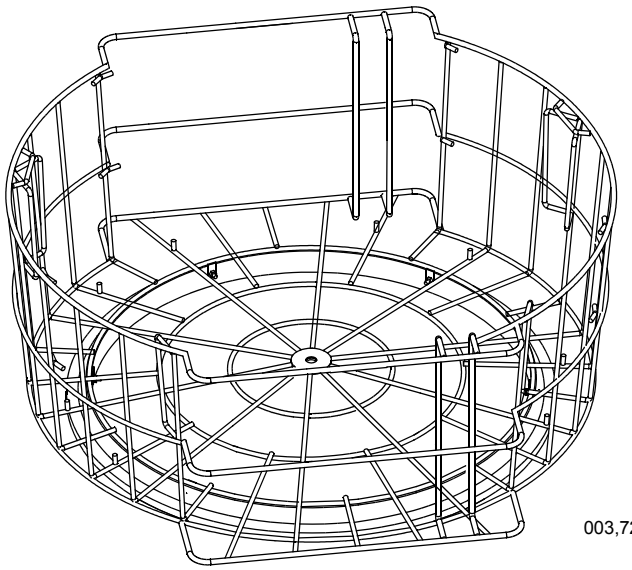




Wash basket for ABC containers 209,7259

Cassette for large plastic boxes

There is room even for large plastic boxes in this cassette.



Cassette for large plastic boxes 209,7275

4.2 Using the machine

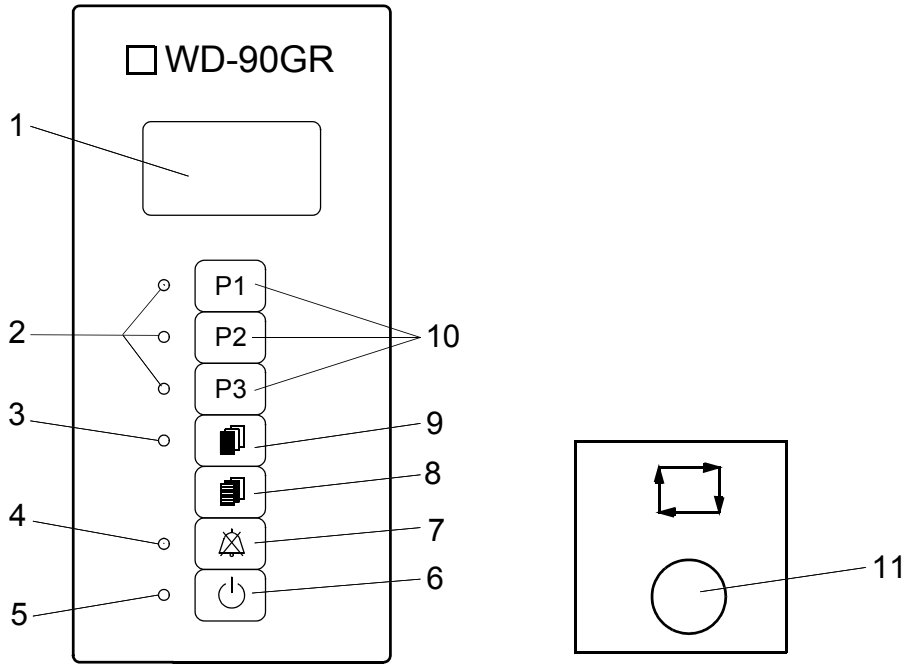
In the various stages of the wash cycle, the cassette rotates as follows:

- Washing, around 8 revolutions/minute
- Rinsing, around 13 revolutions/minute
- Spinning, around 80 revolutions/minute

4.2.1 Washing

Choosing the wash programme

The machine has six wash programmes (P1-P6) which can be selected using the three programme selection buttons (10) P1, P2 and P3. Each programme button can be used to select two programmes. By pressing a programme button repeatedly, you can switch between the two wash programmes and pause mode. The LED (2) above the button is lit if the programme has been selected. If the LED is not lit, the machine is in pause mode.



If no wash programme has been selected (LED not lit), the machine is in pause mode and possible programme choices are shown on the display.

The programme buttons correspond to the following wash programmes:

- P1=Wash programmes P1 and P4. (Press P1 twice to access programme P4).
- P2=Wash programmes P2 and P5. (Press P2 twice to access programme P5).
- P3=Wash programmes P3 and P6. (Press P3 twice to access programme P6).

Wash programmes with granulate

The display (1) shows which programme has been selected.

Use a programme with granulate for very dirty items, such as burned saucepans, baking sheets and gratin dishes.

The programme times depend on the water pressure during the final rinse.

- P1=Wash with granulate and spin. Programme time approx. 5 minutes. (Factory setting)
- P2=Wash with granulate and spin. Programme time approx. 8 minutes. (Factory setting)
- P3=Wash with granulate and spin. Programme time approx. 10.3 minutes. (Factory setting)

The programmes can be run with or without a spin cycle. The machine is supplied with the spin cycle enabled. If you need a programme without a spin cycle, you must change the setting in the machine's software.

A programme without a spin cycle should be used if the items being washed are for some reason not suitable for spinning, for example if the items cannot be fixed firmly in the cassette.

Wash programmes without granulate

The display (1) shows which programme has been selected.

These programmes are used for items which cannot be washed using granulate, such as plastic canteens.

The programme times depend on the water pressure during the final rinse.

- P4=Heavily soiled wash without granulate and with spin. Programme time approx. 2,3 minutes. (Factory setting)
- P5=Heavily soiled wash without granulate and with spin. Programme time approx. 3,8 minutes. (Factory setting)
- P6=Heavily soiled wash without granulate and with spin. Programme time approx. 6,8 minutes. (Factory setting)

The programmes can be run with or without a spin cycle. The machine is supplied with the spin cycle enabled. If you need a programme without a spin cycle, you must change the setting in the machine's software.

A programme without a spin cycle should be used if the items being washed are for some reason not suitable for spinning, for example if the items cannot be fixed firmly in the cassette.

4.2.2 Starting the wash programme – washing

The dishware must not be soaked or pre-washed in washing up liquid.

Make sure that the dishes are in a position where they cannot move out of the wash basket during the wash and rinse phases.

- Close the door and start the wash programme by pressing button (11).
- While the machine is washing, the display (1) will show the remaining washing time (up to the final rinse).
- When the wash programme has finished, display (1) shows the selected programme. Do not open the door until the selected programme appears on the display.
- Open the door and remove the cassette with the clean items from the machine.

NOTE: If there is to be a long break between washes, select pause mode P0. The door remains closed to save energy and to stop the temperature of the water in the wash tank from falling.

4.2.3 Guaranteed final rinse

The temperature of the final rinse water is always correct and the right amount of rinse water is always used.

If the rinse temperature is too low, an alarm is triggered on the control panel. The machine continues washing until the right temperature is reached. However, the alarm can be reset with button (7) on the panel. The wash programme continues, but the machine will then rinse at a lower temperature. However, an alarm is triggered.

If the flow during the final rinse is too low, an alarm is displayed on the control panel. The alarm can also be set up to stop the machine. The factory setting is for an alarm only. If you need an alarm which stops the machine, the setting must be changed by a service engineer in the machine's software.

4.2.4 Checking the washed items

Always check the washing results.

Check whether any granulate has stuck to the items and, if it has, remove it.

Check particularly carefully when washing perforated canteens.

kont

Checking the washed items.

4.2.5 Stopping the machine during operation

If the machine needs to be stopped during operation for some reason, press button (6) to turn off the power supply.

To restart the machine, press the On/Off button (6).

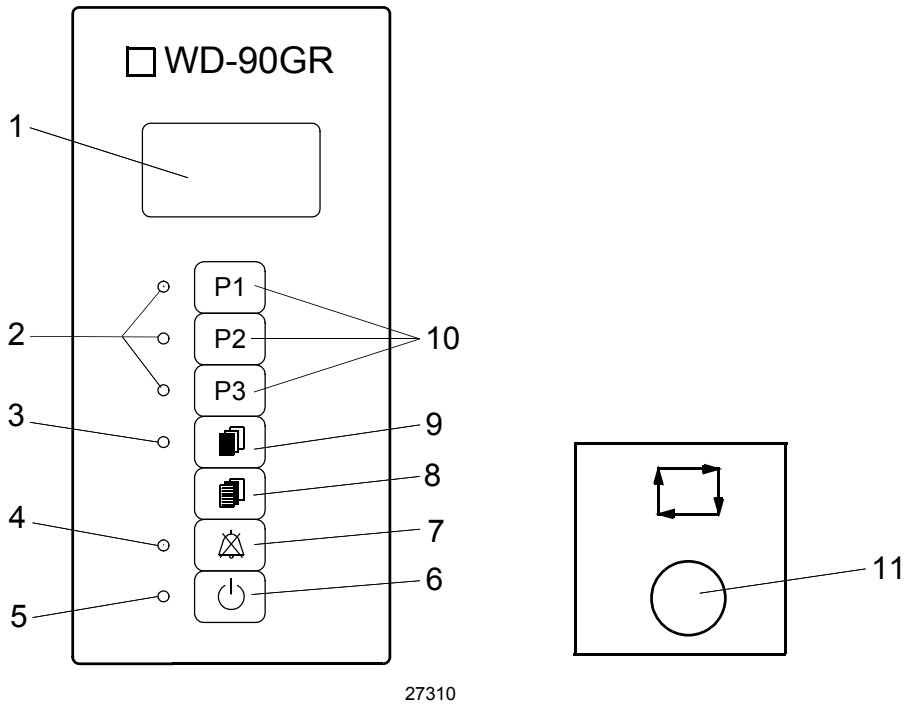
4.2.6 Changing the water

To achieve the best possible washing results, it is important that the water is changed frequently.

NOTE: The water in the wash tank must be changed regularly, otherwise foam will start to form and the washing results will deteriorate. If the filter are clogged with foam or if foam comes out of the waste pipe, the water must be changed immediately.

Before changing the water, run a washing programme without granulate.

The machine has an alarm which indicates when the water is dirty and must be changed. The alarm is set off after a preset number of wash cycles. The LED (4) flashes to indicate that the alarm has been activated. The alarm can be reset by pressing button (7). The machine can also be locked to prevent it from being used any further when the alarm about the water change is triggered. The setting must be changed by a service engineer in the machine's software.



Recommendations

- Change the water if a large amount of foam forms.
- If a large number of items need washing before lunch and relatively few during the afternoon, change the water directly after the lunchtime wash.
- If a large number of items need to be washed after breakfast and after lunch, change the water twice, both after breakfast and after lunch.

Changing the water

- Before changing the water you must run programme P4. Use a cassette containing no items for washing.
- Press the 0/1 button (6) to switch off the power. Keep the door shut and press the buttons (17) on the side of the machine.
- Lower the door in parallel with the front panel.
- Take out the circular table (16), the filter (14) and the cover plates (15). Rinse these items in water.
- Turn the level pipe (21) a quarter of a turn to empty the tank.
- If necessary, rinse the wash tank and the granulate with water.
- Turn the level pipe (21) back a quarter of a turn until the rubber seal (22) seals with the bottom plate.
- Replace the cover plates, filter and circular table.
- Press 0/1 (6) and close the door.
- The machine will now fill with clean water.

When the tank is full and the correct operating temperature has been reached, the machine is ready for use again.

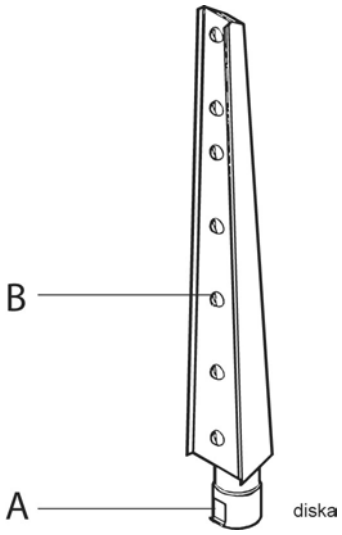
The door pushbuttons (17) for the door lock on the side of the machine.

The level pipe (21) and the rubber seal (22).

Checking the wash nozzle

Check regularly that the wash arm nozzles (18) are not blocked. Remove the wash arms (19) and clean the nozzles if necessary.

To avoid the nozzles getting blocked, it is important to remove all large pieces of food from the items to be washed before putting them in the machine.



Undo the quick release lock (A). Take out the wash arms. Check and clean the wash nozzles (B).

4.3 After use – cleaning

HACCP

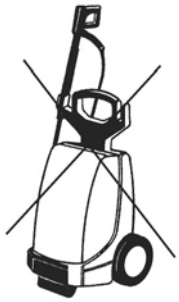
HACCP is a preventive inspection system which ensures that hygiene requirements are met during the washing process and the cleaning of the machine. As a result of its design, the machine meets strict hygiene requirements. Regular, thorough cleaning is also important from a hygiene perspective. Cleaning the machine carefully helps to ensure good washing results and reduces the risk of dirt accumulating inside the machine.

See the WEB Tool manual for the HACCP alarm options.

4.3.1 Daily cleaning

NOTE: The following applies when cleaning the machine:

- Do NOT use steel wool as it will cause corrosion to form in the machine.
- Pressure washers can damage the machine and must NOT be used for cleaning purposes. Never use a pressure washer to clean the floor within 1 metre of the dishwasher without the special protective covers that are available to prevent splashing. The supplier cannot be held liable for any faults caused by the use of pressure washers on the machine and any such use will invalidate the warranty.



Steel wool and pressure washers must not be used for cleaning.

There is a risk of splashing even if the floor is only hosed down.

Cleaning the inside of the machine

Preparations:

- Run the machine on programme P4 without a load.
- Switch off the machine by pressing button 0/1 (76. The display (1) show horizontal bars. These will disappear after a few minutes.
- Press buttons (17) when the door is closed.
- Lower the door in parallel with the front panel.
- Take out the circular table (16), the filter (14) and the cover plates (15).
- Rinse these items in water.

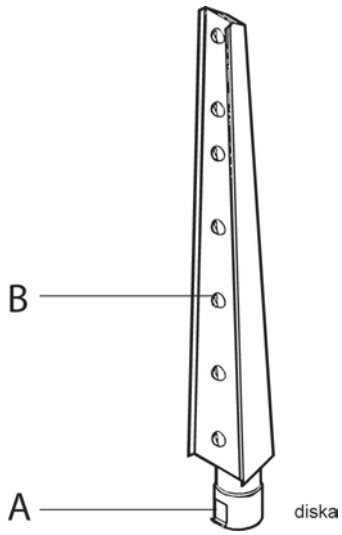
The door pushbuttons (17) for the door lock on the side of the machine.

Draining and cleaning the tanks:

The level pipe (21) and the rubber seal (22).

- Turn the level pipe (21) a quarter of a turn to empty the tanks.
- Take out and clean the level pipe (21) once the tanks are empty.
- Clean the inside of the machine.
- Rinse the tanks (12,13) and the granulate in hot water.

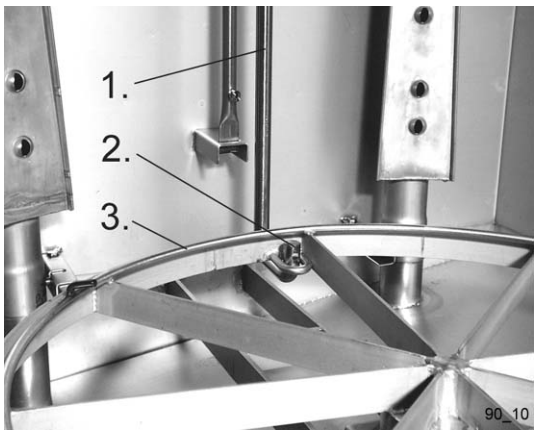
Cleaning the wash nozzles and the wash arms:



Undo the quick release lock (A). Take out the wash arms. Check and clean the wash nozzles (B).

- Take out the wash arms (19). Undo the quick release lock and pull the wash arms straight up. Rinse them inside and out. Check that the nozzles (18) are not blocked. Replace the wash arms.

Reassembling the machine:



1. Drive arm
2. Clamp
3. Ring

- Replace the washer arms (19).
- Replace the circular table (16). In order for the circular table to function, the clamp on the edge of the table must be firmly fixed to the lower part of the drive arm (20).
- Clean the washing basket and other accessories.
- Put the filter (14), cover plates (15) and level pipe (21) in the washing basket outside the machine.

Cleaning the outside of the machine

Wipe the outside of the machine with a soft, damp cloth.

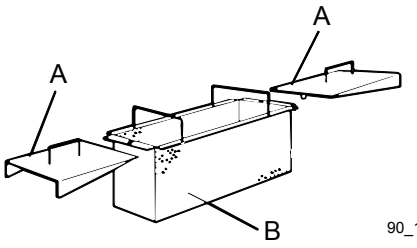
If detergent is used, it must not contain abrasives. Detergents containing abrasives will damage the stainless steel panels.

The outside of the machine must not be hosed down. Water can enter the machine and damage the control panel and electrical equipment.

4.3.2 Periodic cleaning

Collecting the granulate

The granulate must be collected and cleaned once a week. This must be done before the machine is emptied and switched off.



To collect the granulate, replace the filters with the connector plates (A) and the granulate collectors (B).

- Remove the circular table (16) and the filter (14).
- Put the granulate collector (B) where the filters are normally located and the two connector plates (A) on each side of the collector.
- Run programme P1 with granulate.
- When the programme is finished, remove the granulate collector (B) and the two connector plates (A). Check that all the granulate has been collected.
- Check that the collector contains the correct amount of granulate. The collector should contain around 5 litres of granulate. The granulate collector should be full to the brim. Add fresh granulate if necessary.
- The machine checks that there is the right amount of granulate after a certain number of wash cycles (the number can be set).
- Leave the granulate in the collectors overnight to air.
- Put it back in the granulate wash tank (13) the next day.

Cleaning the granulate each week (or as required)

The machine has an alarm which indicates when it is time to check the granulate level.

- Collect the granulate.
- Place the containers in the sink and rinse the granulate using a hand shower.
- Remove any food residues.

The machine must also be cleaned in accordance with the instructions for daily cleaning.

Cleaning the granulate each month (or as required)

- Collect the granulate and tip it into a bucket.
- Place the bucket containing the granulate in the sink. Take the hand shower and move it around in the granulate, rinsing the granulate carefully.

As the granulate is heavier than the food residues, the food residues will float to the surface and run off with the excess water. Follow the weekly cleaning instructions and allow the granulate to air properly overnight.

Cleaning the granulate

Disinfecting the granulate each year (or as required)

- Collect and clean the granulate in accordance with the previous instructions.
- Empty the machine and clean it in the usual way.
- Press button (6) to switch off the power supply.
- Pour the granulate back into the machine.
- Clean the circular table, cover plates, filters and level pipe. Refit the components.

NOTE: Contact the service engineer or detergent supplier to shut off the detergent and drying agent dosing system.

- Start the machine and fill it with water in the usual way.
- Pour one litre of chlorine into the wash tank, then run programme P4.
- Run programme P1 with granulate three times followed by programme P4. Empty the chlorinated water from the tanks.
- Refill the wash tank and run programme P1 once to rinse out the machine. The machine is now disinfected.

Contact the service engineer to switch the detergent and drying agent dosing system back on.

4.3.3 Periodic servicing

Long intervals between using the machine

If the machine is not being used for a long period, the granulate and the machine should be disinfected with chlorine. You can store the granulate in the freezer during this period.

If the machine is not being used for a long period, cooking oil should be sprayed into the pump housings. The oil will prevent rust from forming in the pump housing and jamming the impeller. The cooking oil is sprayed into the pumps' inlet pipes. (This should be done by an authorised engineer.)

Checking the amount of granulate – Changing the granulate

The granulate will gradually start to wear and the washing results may be affected. In order to maintain good washing results, it is important that the machine always contains the correct quantity of granulate. Add fresh granulate if necessary. If the granulate is very worn, it should be replaced. The best time to do this is when the granulate is being collected as part of the normal cleaning process.

This should be checked every week.

Recycling the granulate

Used granulate should not be disposed of with other waste. If the granulate is not contaminated, it can be recycled.

The granulate can also be discarded at an approved site or incinerated if this is permitted under local regulations.

The granulate should preferably be recycled rather than being discarded or incinerated.

4.3.4 Operating problems

Troubleshooting

PROBLEM	CAUSE	ACTION
No indication on the control panel display when the control button is pressed.	The mains switch is off.	Turn on the mains switch.
The machine does not fill with water.	The stopcock on the incoming water supply is closed.	Open the stopcock.
	The doors are open.	Close the doors.
The tanks overfill.	The level pipe is not in place.	Fit the level pipe.
	The level pipe's rubber sleeve is not sealing against the bottom plate.	Check that the level pipe is closed. Change the rubber sleeve if it is damaged.
The machine does not start washing.	The doors are not closed.	Close the doors.
	Dishes are blocking the magnet on the hood/door.	Remove the dishes.
Noise from the wash pump.	Low water level. Foam in the tank.	Check the level. Change the water.
The machine is not cleaning properly.	The rinsing and washing nozzles are clogged with dirt.	Check and clean the nozzles.
	There is too little detergent.	Check that there is sufficient detergent in the machine.
	The wrong wash programme.	Choose a programme with a longer washing time.
	The water in the tanks is too dirty.	Change the water.
	There is too little granulate in the tank.	Check the amount of granulate and add more if necessary.
	The removable parts are incorrectly fitted.	Fit the parts correctly.
Granulate sticks to the washed items.	The rinse nozzles are blocked.	Clean the nozzles.
	There is too much foam in the machine.	Check to see how clean the wash water is. Change the water if necessary.
The granulate is in the wrong tank.	There is too much foam in the machine.	Check to see how clean the wash water is. Change the water if necessary.
	The wash water is too dirty.	Change the water.
The washed items do not dry.	The rinse nozzles are blocked.	Check and clean the nozzles.

When you contact the service personnel, you will need to answer the following questions about the machine:

- machine type and model
- machine serial number and installation date
- short description of the fault/problem
- what happened/was being done immediately before the fault occurred

Machine faults and user errors

Machine faults and user faults are indicated with messages on the display (1). The alarms indicated with a flashing LED (4) can be reset with button (7) when the cause of the alarm has been rectified. Alarms that are indicated by an LED (4) which is lit but does not flash cannot be reset by the operator.

The following alarms can be resolved by the operator. For other alarms, or if an alarm which has been reset by pressing button (7) recurs, authorised service personnel must be called.

ALARM TEXT	ACTION
(1) EMERGENCY STOP ACTIVATED PRESS RESET	Reset the emergency stop button by turning it in the direction of the arrow. Then reset the alarm by pressing button (7).
(10) HACCP ALARM PUMP FUNCTIONALITY DEFECT PRESS RESET	Reset the alarm by pressing button (7).
(17) ROTATION ERROR ROTATING TABLE PRESS RESET	First turn the machine off and then on, so that the doors open. You can also wait until the programme has finished. Only the table stops rotating. The wash programme does not stop. Check that none of the items being washed have jammed the rotating table (16). Remove any items. Reset the alarm by pressing button (7).
(37) LOW FLOW DURING FINAL RINSE PRESS RESET	Reset the alarm by pressing button (7).
(38) HACCP ALARM NO FLOW DURING FINAL RINSE PRESS RESET	Check that the stopcocks on the incoming water supply are open. Reset the alarm by pressing button (7).
(40) HACCP ALARM FINAL RINSE DEFECT PRESS RESET	Check that the stopcocks on the incoming water supply are open. Reset the alarm by pressing button (7).
(42) TIMEOUT WHEN FILLING TANK PRESS RESET TO START FILLING AGAIN	Check that the stopcocks on the incoming water supply are open. Check that the level pipe (20) is closed and that the rubber seal (21) on the level pipe is sealing with the bottom plate. Reset the alarm by pressing button (7).
(43) TIMEOUT WHEN HEATING TANK PRESS RESET	Reset the alarm by pressing button (7).
(44) LOW TEMPERATURE IN TANK PRESS RESET	Reset the alarm by pressing button (7).
(45) HACCP ALARM HEATING OF TANK DEFECT PRESS RESET	Reset the alarm by pressing button (7).
(48) HACCP ALARM HEATING OF BOILER DEFECT PRESS RESET	Reset the alarm by pressing button (7).
(51) HACCP ALARM WASHING DETERGENT FUNCTIONALITY DEFECT PRESS RESET	Check and fill with new detergent. Reset the alarm by pressing button (7).

ALARM TEXT	ACTION
(57) EXTERNAL ALARM ACTIVATED PRESS RESET	Reset the alarm by pressing button (7).
(58) TIME TO CHANGE WATER IN TANK PRESS RESET	Change the water. Reset the alarm by pressing button (7).
(60) CHECK GRANULE LEVEL PRESS RESET	Collect the granulate in the granulate collectors and check the level. Reset the alarm by pressing button (7).

5. Technical information

The manufacturer reserves the right to make changes to the technical data.

TECHNICAL DATA	
Granulate pump (kW)	2,2
Rinse pump (kW)	1,5
Rotating table motor (kW)	0,18
Booster heater (kW)	9
Tank heater (kW)	9
Tank volume (litres)	100
Weight, machine in operation (kg)	430
Granulate amount (litres)	5
Enclosure class (IP)	55

CAPACITY AND OPERATING DATA	
Total washing time programme 1 (min) *	5
Total washing time programme 2 (min) *	8
Total washing time programme 3 (min) *	10,3
Total washing time programme 4 (min) *	2,3
Total washing time programme 5 (min) *	3,8
Total washing time programme 6 (min) *	6,8
Capacity (1/1-canteens/programme) (units) (FLEX) **	4
Capacity (1/1-canteens/programme) (units) (HC) **	6
Water consumption, rinsing/programme (litres) ***	3,5-5
Water consumption, cooling/programme (litres) ***	0-1,5
Max. steam consumption (kg/h) ****	15
Max. surface temperature at a room temperature of 20°C (°C)	30
Noise level (dB(A)) *****	68

* Factory setting. The wash time is adjustable.

** Max. capacity depending on the depth of the canteens.

*** Applies under ideal conditions with a spin cycle. The water consumption depends on the local conditions. Fine adjustments can be made during installation.

**** When the machine is steam-heated.

***** Measured 1 metre from side of the machine.

CONNECTION, ELECTRICALLY HEATED MACHINE	
Total connected power (kW)	11,3
Main fuse 400V 3N~(A) *	20
Max. connection area 400V 3N~ (L1-L3, N, PE) Cu (mm²)	6

* Other voltages on request.

CONNECTION, STEAM-HEATED MACHINE 50-250 kPa	
Total connected power (kW)	2,4
Main fuse 400V 3N~(A) *	16
Max. connection area 400V 3N~ (L1-L3, N, PE) Cu (mm²)	6
Steam connection (internal thread)	R½"
Condensing water connection (internal thread)	R½"

* Other voltages on request.

WATER, DRAIN AND VENTILATION CONNECTIONS	
Water quality, hardness (°dH)	2-7
Hot water connection 50-70°C (internal thread)	R½"
Cold water connection 5-12°C (internal thread)	R½"
Drain connection, PP pipe (ø mm)	50
Hot water capacity, pressure (kPa)	250
Hot water capacity, flow (litres/min)	15
Cold water capacity, cooling min./max. pressure (kPa)	100/600
Floor drain, capacity (litres/sec)	3

SIZE AND WEIGHT FOR TRANSPORT	
Size (LxWxH) (mm) *	1060x900x1950
Weight (kg) *	340

* Including packaging.

Wexiödisk

CE Declaration of Conformity

This declaration of conformity only refers to the machine/product in the condition in which it is supplied, not any additions or modifications made by the customer/user.

Manufacturer: Wexiödisk AB Mårdvägen 4 S-352 45 Växjö, Sweden Tel: +46 470 77 12 00 Fax: +46 470 237 52
Representative: BF Engineering Services LTD, Rekal doo, Agroznanje doo, Fastus ehf,
M/s Aishwarya Consolidates Pvt Ltd, Nakanishi Mfg Co Ltd, Martin Food Equipment Ltd
Compiler of technical documentation: Magnus Ericsson

Our machines are manufactured 2012 in accordance with applicable EU directives and we declare under sole responsibility that the following products:

Single tank dishwashers with accessories:
WD-4x, WD-6x, WD-7, WD-PRM6/7

Pot wash machines:
WD-12, WD-90x, WD-100GR

Tunnel dishwashers with accessories:
WD-11, WD-151C/211C, WD-151E/211E/241E/331E/421E, WD-153/213/243/333/423
WD-215T, WD-PRM60/90, WD-T60/60F/80/120, WD-C90/180, WD-BF90/180

Conveyor dishwashers*:
WD-B xxx, WD-xxCT, WD-40BRE, ACS-38/47

Special dishwashers*:
WD-18CW, WD-25BR, WD-25T, WD-8020/8020W/8020WL/9020/9020W, ACS 400HC, ACS 800

Conform to the following directives:

EU Declaration of Conformity
according to EU's Machinery Directive 2006/42/EG, annex IIA.
Harmonised standards
EN 12 100-1 Machine safety: specification for general requirements, part 1
EN 12 100-2 Machine safety: specification for general requirements, part 2.
EN 60 204-1 Machine safety: electrical equipping of machines: general requirements

EU Declaration of Conformity
according to EU's Low-voltage directive 2006/95/EC.
Harmonised standards
EN 60 529 Specification for degrees of protection provided by enclosures (IP code).

For products marked with *
EN 60 204-1 Machine safety: electrical equipping of machines: general requirements

For other products
EN 60 335-1 Safety of household and similar electrical appliances - General requirements.
EN 60 335-2-58 Specification for safety of household and similar electrical appliances. Particular requirements. Commercial electric dishwashing machines.
EN 50106 Safety - Particular rules for routine tests.

EU Declaration of Conformity
according to EU's EMC-directive 2004/108/EC.
Harmonised standards
EN 61 000-6-2 Electromagnetic compatibility (EMC). Generic standards. Immunity standard for industrial environments.
EN 55 014-1 Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. (EMC) - Part 1: Emission

Växjö 2012-01-02

Torsten Nyberg
Managing Director